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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

ATTY.'S DOCKET: BEN-DAVID=3

In re Application of:	)	Group Art Unit: 2171
Shoham BEN-DAVID et al	)	Confirmation No.: 7765
Appln. No.: 10/042,304	)	Washington, D.C.
Filed: January 11, 2002	)	April 22, 2002
For: EFFICIENT PRODUCTION OF	)	
DISJOINT MULTIPLE TRACES	)	

INFORMATION DISCLOSURE STATEMENT [IDS]

Honorable Commissioner for Patents  
Washington, D.C. 20231

Sir :

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APR 23 2002  
Technology Center 2100

This Information Disclosure Statement is submitted in accordance with 37 CFR §§1.97, 1.98, and it is requested that the information set forth in this statement and in the listed documents be considered during the pendency of the above-identified application, and any other application relying on the filing date of the above-identified application or cross-referencing it as a related application.

1. This IDS should be considered, in accordance with 37 CFR §1.97, as it is filed:

(Check one of the boxes A-D)

[ ] A. within three months of the filing date of the above-identified national application or within three months of the entry into the national stage of the above-identified international application.

[X] B. before the mailing date of a first office action on the merits.

☐ C. after (A) and (B) above, but before final rejection or allowance, and Applicants have made the necessary certification (box "i" below) or paid the necessary fee (box "ii" below).

*(Check one of the boxes "i" and "ii" below:)*

☐ i. Counsel certifies that, upon information and belief, each item of information listed herein was either

☐ (a) first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS; or

☐ (b) not cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of undersigned after making reasonable inquiry, was not known to any individual designated in §1.56(c) more than three months prior to the filing of this IDS.

***(use one and delete other of following)***

☐ ii. A check (check no. \_\_\_\_\_) for the fee set forth in §1.17(p), presently believed to be \$180, is enclosed.

☐ ii. Credit Card Payment Form, PTO-2038, is attached authorizing payment of the fee set forth in §1.17(p), presently believed to be \$180.

☐ D. after (A), (B) and (C) above, but before payment of the issue fee: Applicant(s) petitions under 37 CFR §1.97(d) for consideration of this IDS. ***(use one and delete other of following and this note)*** A check (check no. \_\_\_\_\_) for/ Credit Card Payment Form, PTO-2038, is attached

authorizing payment of the fee set forth in §1.17(i), presently believed to be \$130 is enclosed. Counsel certifies that, upon information and belief, each item of information listed herein was either

*(Check one of the boxes "a" and "b" below)*

☐ (a) first cited in a communication from a foreign patent office in a counterpart foreign application not more than three months prior to the filing of this IDS; or

☐ (b) was not cited in a communication from a foreign patent office in a counterpart foreign application and, to the knowledge of the undersigned after making reasonable inquiry, was not known to any individual designated in §1.56(c) more than three months prior to the filing of this IDS.

2. In accordance with 37 CFR §1.98, this IDS includes a list (e.g., Form PTO/SB/08A) of all patents, publications, or other information submitted for consideration by the office, either incorporated into this IDS or as an attachment hereto. A copy of each document listed is attached, except as explained below.

*(check boxes A and/or B and fill in blanks, if appropriate)*

☐ A. Document(s) \_\_\_\_\_ is (are) deemed substantially cumulative to document(s) \_\_\_\_\_, and, in accordance with §1.98(c), only a copy of each of the latter documents is enclosed.

☐ B. Certain documents were previously cited by or submitted to the Office in the following prior application(s), which are relied upon under 35 U.S.C. 120:

*(insert serial numbers and filing dates of prior applications)*

Applicant(s) identifies these documents by attaching hereto copies of the forms PTO-892 and PTO-1449 (or PTO/SB/08A) from the files of the prior application(s) or a fresh PTO-1449 (or PTO/SB/08A) listing these documents, and request that they be considered and made of record in accordance with \$1.98(d). Per 37 CFR \$1.98(d), copies of these documents need not be filed in this application.

3. Document(s) \_\_\_\_\_ is (are) not in the English language. In accordance with \$1.98(c), Applicant(s) states:

- ☐ An English translation of each document \_\_\_\_\_ (or of the pertinent portions thereof), or a copy of each corresponding English-language patent or application, or English-language abstract (or claim) is enclosed.
- ☐ A concise explanation of the relevance of document(s) \_\_\_\_\_ is found in the attached \_\_\_\_\_ search report (see reply to Comment 68 in the preamble to the final rules; 1135 OG 13 at 20).
- ☐ A concise explanation of the relevance of document(s) \_\_\_\_\_ is set forth as follows:  
*(insert concise explanation of relevance)*
- ☐ A concise explanation of the relevance of document(s) \_\_\_\_\_ can be found on page(s) \_\_\_\_\_ of the specification.
- ☐ A concise explanation of document(s) \_\_\_\_\_ can be found on the attached sheet.

4. No explanation of relevance is necessary for documents in the English language (see reply to Comments 67 and 68 in the preamble to the final rules; 1135 OG 13 at 20).

5. Other information being provided for the examiner's consideration follows:

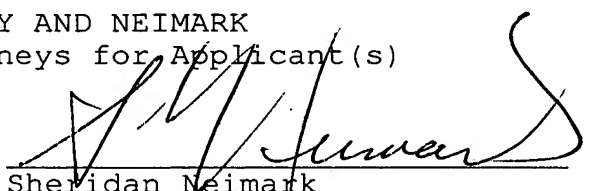
*(insert other information)*

6. In accordance with 37 CFR §§1.97(g) and (h), the filing of this IDS should not be construed as a representation that a search has been made or that information cited is, or is considered to be, material to patentability as defined in §1.56 (b), or that any cited document listed or attached is (or constitutes) prior art. Unless otherwise indicated, the date of publication indicated for an item is taken from the face of the item and Applicant(s) reserves the right to prove that the date of publication is in fact different.

Respectfully submitted,

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Substitute for form 1449A/PTO

**INFORMATION DISCLOSURE  
STATEMENT BY APPLICANT**

(use as many sheets as necessary)

**Complete if Known**

Application Number	10/042,304
Filing Date	January 11, 2002
First Named Inventor	Shoham BEN-DAVID et al
Group Art Unit	2171
Confirmation No.	7765
Attorney Docket Number	BEN-DAVID=3

Sheet 1 of 1

**OTHER PRIOR ART - NON PATENT LITERATURE DOCUMENTS**

Examiner Initials*	Cite No. <sup>1</sup>	Include name of the author (in CAPITAL LETTERS), title of article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published	T <sup>2</sup>
	AA	E. CLARKE, Jr. et al; "Model Checking"; Chapter 1, MIT Press, 1999, pp. 4-6.	
	AB	K. McMILLAN; "Symbolic Model Checking", Kluwer Academic Publishers, Chapter 2, pp. 11-12; 1993.	
	AC	E. M. CLARKE et al; "Efficient Generation of Counterexamples and Witnesses in Symbolic Model Checking"; 32 <sup>nd</sup> Design Automation Conference, 1995, pp. 427-432.	
	AD	BEER et al; "RuleBase: an Industry-Oriented Formal Verification Tool"; Proceedings of the Design Automation Conference DAC '96; 1996.	
	AE	BEER et al; "On-the-fly Model Checking of RCTL Formulas"; Proceedings of the Tenth International Conference on Computer Aided Verification (CAV 1998).	
	AF	BEER et al; "The Temporal Logic Sugar"; Proceedings of the Thirteenth International Conference on Computer Aided Verification (CAV 2001).	
	AG	BRYANT; "Graph-based Algorithms for Boolean Function Manipulation", IEEE Transactions on Computers C- 35:8 (1986).	

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Examiner  
SignatureDate  
Considered

\* EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

<sup>1</sup> Unique citation designation number. <sup>2</sup> Applicant is to place a check mark here if English language Translation is attached.